Products

Tunnelling equipment

For more than two decades, IHC Hytech has been actively involved in the design and manufacture of certified decompression/hyperbaric chambers systems, which are installed in tunnel boring machines (TBMs). Not only does IHC Hytech specialise in delivering, for example, man lock chambers (for transfer under pressure), which are integrated in the pressure shield of TBMs, but it is also capable of supplying: complete turnkey packages with man transfer shuttles; decompression chambers; medical chambers; and hyperbaric living habitats, including all auxiliary equipment. In addition to this, IHC Hytech provides life-cycle support for all the systems it supplies.

The MTS (Main Transfer Shuttle) is used for the transport from the TBM to the SDC (Special Decompression Chamber). A SDC can consists of a two compartment decompression chamber with a control panel in a separate container (control room).

With regard to various national regulations and customer specifications, all IHC Hytech equipment is built in compliance with the requirements of renowned international certification authorities, such as LR, DNV GL, ASME, TÜV. Surveyor inspections during essential stages of the design and manufacturing process are a normal procedure for IHC Hytech tunnelling projects.

Royal IHC

IHC Hytech is part of Royal IHC. IHC enables its customers to execute complex projects from sea level to ocean floor in the most challenging of maritime environments. We are a reliable supplier of innovative and efficient equipment, vessels and services for the offshore, dredging and wet mining markets.

With a history steeped in Dutch shipbuilding since the mid-17th Century, we have in-depth knowledge and expertise of engineering and manufacturing high-performance integrated vessels and equipment, and providing sustainable services. With our commitment to technological innovation we strive to continuously meet the specific needs of each customer in a rapidly evolving world.

Royal IHC. The technology innovator.

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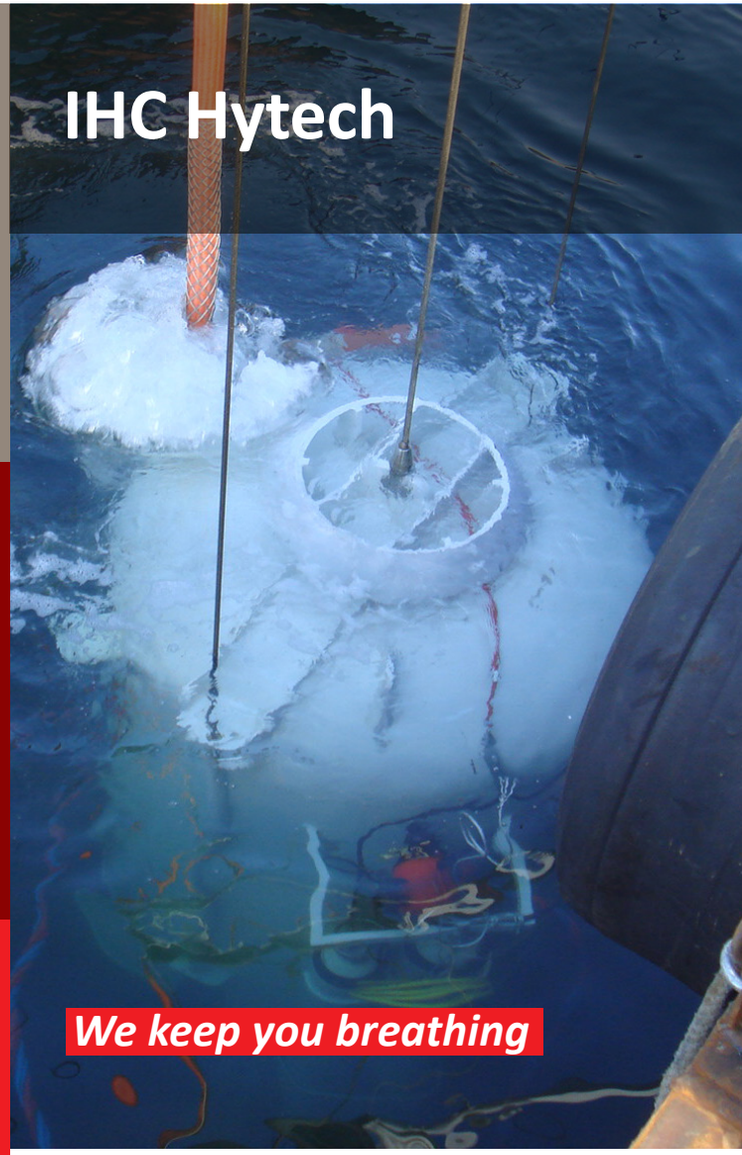


The technology innovator.

Products

Diving equipment

Decompression chambers

Decompression chambers built by IHC Hytech are considered to be market leading and are suitable for any application. They are the result of divers working together with the design teams, mixing seasoned experience with fresh perspectives. IHC Hytech believes that decompression chambers should be easy to operate, to avoid possible errors or losing precious time.

IHC Hytech manufactures decompression chambers in all types of materials and configurations: aluminium, steel, duplex, stationary, mobile or transportable. There are standard tanks, but customers are by no means limited to one model. All decompression chambers can be custom-made to fit their applications precisely.

High-quality components

IHC Hytech manufactures and delivers a wide range of high-quality components, which are designed to meet the toughest standards in the industry. Examples include (portable) diving panels, gas control panels, LED helmet lights, flow fuses, reducers and scrubbers.

The three-diver panel for example is a surface-supplied diving system designed to simultaneously support three divers working at a depth of 70 metres of seawater (optional 100 metres) on all types of underwater tasks, including surveys, maintenance, defect rectification, cutting and welding.

Hyperbaric lifeboats

Together with Aberdeen based Survitec Survival Craft (Part of the Survitec Group), IHC Hytech is involved in the design and manufacturing of self-propelled hyperbaric lifeboats (SPHL), suitable for 12, 18 and 24 divers and for depth ranges up to 400 msw.

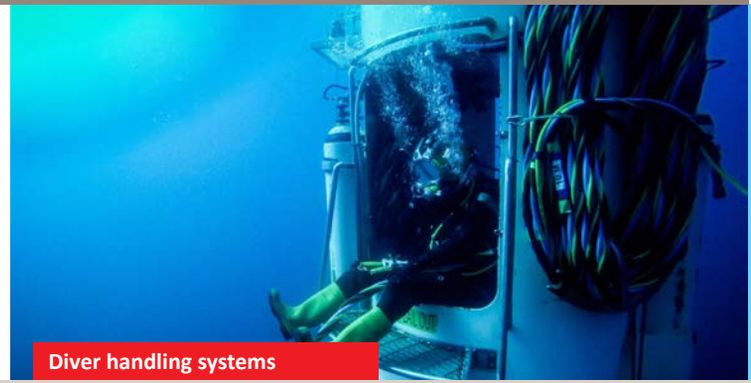
The entire unit will be SOLAS and DNV-GL class approved. The interior of the diver evacuation chamber as integrated in the SPHL includes a hyperbaric toilet, CO_2 scrubber systems, supply lock and a service hatch at the front.

Fly away support package

The fly away life-support package is capable to provide the “essential services” to a hyperbaric rescue chamber / SPHL when evacuated from the mother vessel (diving support vessel) and there is no rescue facility directly available.

Critical system monitoring and tracking

The CSMTS is a stand-alone data acquisition, recording, communications and transmission product developed by Fathom Systems (and installed by IHC Hytech) to meet and exceed the current guidelines and requirements for the safe operation of self-propelled hyperbaric lifeboats (SPHL) in the event of an evacuation from the host Dive Support Vessel (DSV). The product is a multi-unit system that is an industry wide requirement as stipulated in OGP Report 478 (7.4).



Diver handling systems

To ensure the safe transportation of divers, several diver handling systems are available.

LARS

Divers can be transported to and from the subsea work site using the Launch and Recovery System (LARS). This is a diver handling system designed for a dive cage for two divers, fitted with the required emergency breathing air supplies, with a deployment depth of 100 msw. A heavy duty version of the LARS is also available (with one or two cages).

The LARS with cage and clump is a self-containerised unit with a 20ft-long footprint. The Diving Control Station is located in one of the IHC Hytech containers. Deliveries include the complete diving gear, such as helmet lights, video communication and the surface umbilical connections.

Wet bell

The WBH3-100 is an open wet bell handling system that allows three divers, including a bell man, to work at depths of up to 100 msw. These systems can be fitted to use air or mixed gas breathing gasses.

The system consists of an open wet bell with an internal diameter of 1,500 mm (approximately 5ft), an A-frame with sheaves, a top frame with hydraulic winches to hoist the bell and its clump weight and a dive control container.